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MANUFACTURE AND OPTICAL INFORMATION RECORDING

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ABSTRACT:

PURPOSE: To ensure that a highly sensitive optical recording medium is obtained by providing a constitution in which a thin recording film layer generates optically detectable change due to a mutual reaction caused by the heat generation and temperature increase of two different materials in a mixed state or a laminated state under the projection of a laser beam, on a substrate.

CONSTITUTION: In an optical information recording medium where a thin recording film layer 2 which causes an optically sensible change at least upon projection of a laser beam is provided on a substrate 1, the fine

recording
film layer 2 consists of a mixture or a laminated product of two materials,
which react with each other, if their temperature is increased due to heat
generated by projection of a laser beam, resulting in a thermal reaction.
Under this constitution, if the thin recording film layer 2 is thermally caused
to increase its temperature by irradiating a medium with a laser beam, a
thermal reaction occurs to generate a larger heat energy than an energy charged
by projection of a laser beam. Therefore, it is possible to record data by
allowing even a small optical power of laser beam to change the condition.

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